

1 at that then, and I'll give you the copies of PMA.

2 CHAIRMAN WHALEN: Are there any questions?

3 No response.)

4 CHAIRMAN WHALEN: We'll, just for planning
5 purposes, have one more speaker and then we'll break
6 for lunch and reassemble after for the conclusion of
7 the public speakers.

8 Before lunch, we'll have Ms. Ann Fonffa
9 from the Annie Appleseed Project. She's not here.

10 Ms. Margaret Volpe from Y-ME.

11 MS. VOLPE: Thank you for allowing me to
12 present this statement to the advisory panel.

13 My name is Margaret Volpe. I am a breast
14 cancer survivor and a breast implant recipient. I
15 have no financial ties to manufacturers or health care
16 providers, and I'm not being reimbursed for my
17 appearance here today.

18 I am a volunteer representing Y-ME
19 national breast cancer organization. We are based in
20 Chicago and have chapters nationwide. We believe that
21 no one should face breast cancer alone. So we operate
22 a 24 hour national 1-800 number, hot line in Spanish

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1 and in English, and provide peer support and
2 educational programs.

3 Y-ME is committed to providing support and
4 accurate information to empower individuals touched by
5 breast cancer so that they can select the most
6 appropriate options for themselves in conjunction with
7 their health care provider.

8 When I was diagnosed with breast cancer in
9 1995, I faced the fears, anxiety and depression common
10 to those diagnosed with a life threatening illness.
11 Because of the size and location of my tumor, I had to
12 have a mastectomy.

13 I chose to have a tissue expander inserted
14 into my chest when I had my mastectomy. This was
15 followed by an implant placed under the pectoral
16 muscle in February 1996 once I'd completed
17 chemotherapy.

18 It was very important to me to have
19 reconstruction, not have to worry about how clothes
20 would fit, to feel whole again, for my family and me
21 not to be constantly reminded of my breast cancer, and
22 to get on with my life.

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1 And I have had no problems or
2 complications with my implant since my surgery.

3 Now, let me tell you why I selected an
4 implant for my reconstruction. Now, I know I have
5 ample tissue on my abdomen to be eligible for tram
6 flap reconstruction. However, I knew I didn't want to
7 have to endure the major abdominal surgery and painful
8 recovery period required for the surgery, and I also
9 wanted to keep those muscles intact.

10 I have several friends who did not have
11 this option at all. They were told they were too thin
12 to have the needed tissue for the tram reconstruction.
13 Even the latissimus dorsi, or back flap
14 reconstruction, usually requires an implant.

15 By doing nothing and settling on an
16 external prosthesis, my friends and I would be
17 reminded daily of the mutilation to our breast. Each
18 woman who has had a mastectomy must be allowed to
19 pursue the best option for her, including breast
20 implants.

21 At present, if a woman has had tram
22 reconstruction on one breast, she is unable to have a

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1 second tram reconstruction at a later date if she
2 should develop cancer in the other breast. It is
3 imperative that we continue to have a choice, and for
4 many of us, implants are the only option we have.

5 Y-ME and I believe the availability of
6 saline implants is very important to women who face
7 breast cancer. It is the only uncomplicated option
8 left for women who desire an implant as part of their
9 breast reconstruction after the FDA restriction in
10 1992.

11 It was very difficult for me to get the
12 textured reverse, double lumen implant I received in
13 1996 because of FDA restrictions that required me to
14 be in a clinical trial. I am on a patient registry.

15 In addition, the informed consent I signed
16 in order to participate in the implant study was much
17 more lengthy and detailed than the informed consent I
18 signed to have the potentially deadly stem cell rescue
19 in a clinical trial at Johns Hopkins.

20 This panel must stick to the science when
21 evaluating saline breast implants. Do not allow
22 yourselves to get diverted and sidetracked by special

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1 interests that may have litigation more on their minds
2 than health issues.

3 The National Academy of Sciences'
4 Institute of Medicine report has been issued, and the
5 science is clear. The IOM conducted an exhaustive and
6 definitive review of all existing research and found
7 that there is no evidence that silicone breast
8 implants cause cancer or disease.

9 This report also found the same result for
10 saline breast implants. The U.S. court's National
11 Science Panel and several European government
12 scientific panels issued similar findings. W-ME
13 emphasizes the need for a wide range of treatment
14 options as each woman, each woman must be able to
15 choose the option that best fulfills her needs.

16 One of W-ME's main messages to women and
17 families seeking our help is to fully understand the
18 risk and benefits of any medical choice, including the
19 usual surgical risks. We have worked with FDA to
20 produce accurate information and used the FDA breast
21 implant information booklet when counseling women.

22 And when it comes to the implant itself,

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1 women should understand that no medical device lasts
2 forever. Shunts, heart pacemakers, even artificial
3 knees and joints have an expected life span and
4 possible local complications.

5 And women should be aware of potential
6 rupture and the need for replacement. Adequate
7 informed consent is a key part of the process.
8 Doctors should discuss the issues of risk and benefit
9 in detail with their patients.

10 Saline implants do have a silicone shell,
11 but from the exhaustive research on silicone implants,
12 pointed out by the IOM report, we also know that there
13 is no convincing evidence that silicone produces an
14 immunologic response. The IOM report states that such
15 diseases or conditions are no more common in women
16 with breast implants than in women without breast
17 implants.

18 In closing, W-ME would like to work with
19 FDA on informed consent and labeling issues that will
20 be required if the FDA approves the PMAs. I urge the
21 committee to act based on the science alone.

22 Breast cancer is a devastating disease.

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1 In the effort to resume our lives, breast cancer
2 survivors have the right to select appropriate and
3 effective medical therapies or devices.

4 Thank you very much.

5 CHAIRMAN WHALEN: Thank you.

6 Ms. Volpe, I perhaps didn't hear it. Did
7 you at the beginning identify any financial
8 relationships of your organization?

9 MS. VOLPE: As I said, I'm a volunteer.

10 CHAIRMAN WHALEN: And W-ME receives no
11 funding from any manufacturers of implants?

12 MS. VOLPE: I believe that they have
13 funding provided in the past by some, and our funding
14 is public knowledge and can be --

15 CHAIRMAN WHALEN: Right, but we do ask
16 each of the speakers to identify that so that if there
17 can be any potential bias, those four questions need
18 to be answered, and one of those would be if your
19 organization receives funding from any manufacturers.
20 So that is, indeed, the case.

21 **

21 MS. VOLPE: I believe in the past it has
22 been.

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1 CHAIRMAN WHALEN: Thank you.

2 Are there any questions of the panel
3 members?

4 (No response.)

5 CHAIRMAN WHALEN: Thank you.

6 As I stated, we're going to break for
7 lunch. I have right now about 12:05, and we'll take
8 45 minutes. So please reassemble at a time sufficient
9 so that we can begin business at ten minutes to one.

10 (Whereupon, at 12:03 p.m., the meeting was
11 recessed for lunch, to reconvene at 12:50 p.m., the
12 same day.)

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A-F-T-E-R-N-O-O-N S-E-S-S-I-O-N

(12:56 p.m.)

CHAIRMAN WHALEN: If everyone could take their seats, please, we'll try to resume. If everyone could please be seated, we'll resume the continuing public comments from consumer groups and consumer information providers.

And the next identified speaker if she's present is Ms. Stansell, who is here from the United Silicone Survivors of the World.

MS. STANSELL: I'm Anne Stansell from New Mexico.

The question is who's paying for this trip. My husband and I are.

Now, I need to explain something. We both work only part time due to health reasons. My trip all the way from New Mexico costs about \$1,000. That's a lot of money for a couple that only makes about 24,000 in a year. I'm stating these figures to let you know how very important it is for all of us to tell you that we are sick from breast implants. So please take this seriously as we do.

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1 The answer to the next question is -- are
2 you a party to a pending lawsuit? -- I am a claimant
3 in the Dow bankruptcy court. Dow is offering a
4 settlement, which means I will probably end up getting
5 \$1.98, and my lawyer will get two thirds of that.

6 The answer to the other questions is no.

7 I'm speaking to you as a leader of a group
8 of women in New Mexico in a similar situation. There
9 are some of their photographs so they can be here in
10 a way.

11 Ninety percent of the women in our group
12 in New Mexico are cancer survivors. Many have saline
13 filled silicone shell breast implants. None of us had
14 all the facts when we made the decision to get the
15 breast implants. None of us realized we had a choice.

16 It was presented to me as all part of the
17 treatments. My doctor said, "You have cancer. You
18 need mastectomies, radiation, and breast implants."
19 There was no discussion. No facts were presented to
20 me other than breast implants are perfectly safe and
21 will last forever. This experience is commonly shared
22 by others in our group.

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1 If they should ever leak, we'll just
2 replace them, the doctor said, as if it's as easy as
3 changing hair styles.

4 No one told me that breast implants
5 rupture often. No one told me about infections. No
6 one warned me about other complications causing a need
7 for 14 more surgeries or procedures. No one warned us
8 that saline would get rancid and grow fungus. No one
9 warned us about capsular contracture until a plastic
10 surgeon pounded on our tender chests with both fists.

11 If I had had all the facts, I would never
12 have chosen breast implants, "chosen" being the key
13 word. It should be presented to a cancer patient and
14 all others as a choice, and one can only make an
15 intelligent choice if one has all the facts.

16 Furthermore, the group of cancer surviving
17 women I represent here before you wants me to tell you
18 that breast implants are not medically necessary. We
19 did not need breast implants to get over cancer.
20 Implants are not life saving devices. They are life
21 damaging devices.

22 We have been robbed of our survival to

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1 live a healthy life to a mature old age. We should
2 have been warned by the FDA that they knew nothing
3 about the device being surgically implanted. I guess
4 there is some warning on a thing called "package
5 insert."

6 Now, think about it a moment. "Package
7 insert." It is wrapped inside the sterile package.
8 It is not opened until the patient is under
9 anesthesia. I don't read well under anesthesia.

10 In closing, we need to know when is
11 enough. ASPRS (phonetic) tells us that 80,000 women
12 of child bearing age received saline filled silicone
13 shell breast implants in 1999. Many will file
14 Medwatch forms of adverse reactions as many of us
15 already have.

16 What number is enough? When does it stop?
17 Is it ten percent, 20 percent? What's it going to
18 take? Is it 50 percent?

19 Even ten percent is too much.

20 I charge the FDA to validate now the
21 clinical trials the manufacturers have submitted.
22 Check into selected patient follow-up. Check into

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1 patient intimidation by giving up their rights to sue.

2 Thank you.

3 I give the remainder of my time to Dr.
4 Blais.

5 CHAIRMAN WHALEN: Are there any questions?

6 (No response.)

7 CHAIRMAN WHALEN: Thank you.

8 Is Dr. Blais here? I have been told that
9 he is not here.

10 PARTICIPANT: He's here.

11 CHAIRMAN WHALEN: All right. While we see
12 if he'll arrive, are any of the following here? Ms.
13 -- unfortunately we had no timer, but it was about
14 five minutes left -- Ms. Fonffa, Ms. Mullen, Ms.
15 Williams. None of those are available? Ma'am?

16 PARTICIPANT: (Inaudible.)

17 CHAIRMAN WHALEN: Yes. Actually that's
18 going to be a little bit delayed from 12:50. We're
19 following sequence, but you will be called.

20 Is Dr. Puckett available?

21 DR. PUCKETT: Good afternoon. I'm Dr. Lin
22 Puckett, professor and head of the Division of Plastic

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1 Surgery at the University of Missouri Health Sciences
2 Center in Columbia, Missouri. I'm also President of
3 the American Society of Plastic Surgeons.

4 The Educational Foundation of the ASPS has
5 received undirected research funds from both Mentor
6 and McGhan. These have been used for implant
7 research. Both of them are also exhibitors at our
8 national meeting, along with about 350 other
9 exhibitors.

10 My travel and hotel expenses are being
11 paid by the American Society of Plastic Surgeons. I
12 have no ties to the manufacturers myself. I'm not
13 involved in any lawsuit involving breast implants. As
14 a part of my broad based practice of plastic surgery
15 in the academic environment, I perform breast implant
16 surgery both for reconstructive and cosmetic reasons.
17 I, therefore, derive a portion of my income from this
18 type of surgery.

19 The ASPS represents 5,000 Board certified
20 plastic surgeons in the United States and Canada. It
21 is the largest organization in the world of surgeons
22 certified by the American Board of Plastic Surgery.

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1 Our members have provided care for most of the more
2 than one and a half million women who have chosen
3 breast implant surgery over the past 30-plus years.

4 As physicians, we know the women who have
5 benefitted from breast implant surgery, but who may be
6 uncomfortable speaking about this very personal
7 subject in this public forum. We are their advocates.

8 The FDA determined in 1992 that there is
9 public health need for silicone filled breast
10 implants. Women's request for silicone or saline
11 filled implants dropped off temporarily due to the
12 concerns of the early 1990s. However, since 1995,
13 we've seen a resurgence of interest in and demand for
14 breast implant surgery.

15 The majority of breast implant procedures
16 performed today is the silicone inflatable shell or
17 saline filled breast implant due to the clinical study
18 restrictions on silicone gel filled implants. Today
19 only three companies market the saline implant in the
20 United States.

21 Important research data has emerged in
22 recent years on both gel and saline filled implants.

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1 Because the outside envelope that is used for both gel
2 filled and saline filled implants is a silicone
3 elastomer shell, the study findings on gel implants to
4 a great extent also apply to saline filled implants.

5 In 1997, the prestigious Institute of
6 Medicine of the National Academy of Sciences undertook
7 a major study of silicone breast implants funded in
8 part by the FDA and referred to several times this
9 morning. The IOM's key findings released in June of
10 '99 concluded that silicone implants do not cause
11 major disease. Breast feeding does not pose a health
12 threat to infants. Silicone implants do not harm the
13 developing fetus. Radiation does not hurt implants
14 and vice versa, and that breast implants have improved
15 over time, reducing local complications.

16 It further reported that implants do not
17 weaken the immune system and that, in general,
18 silicone as present breast implants is safe.

19 The findings of this landmark study are
20 reassuring for women and physicians. They confirm the
21 positive clinical experience of plastic surgeons over
22 the years and the high level of satisfaction reported

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1 by women with implants.

2 The study also recognizes the problems
3 that can occur in women with implants. These include
4 the possible need to replace implants, local
5 complications, and the potential need for additional
6 surgery.

7 These factors are relevant for both
8 silicone gel filled implants and saline filled
9 implants.

10 The latest data on these potential
11 problems specific to saline filled breast implants
12 will be presented subsequently at this hearing. Data
13 from a recent University of Minnesota multi-center,
14 retrospective study of 450 patients with saline filled
15 breast implants with a minimum follow-up of ten years
16 shows a deflation rate of 5.8 percent for implant
17 models currently in use. This would be a failure rate
18 of less than one percent per year, and this is in
19 contrast to the interpretation of these statistics
20 quoted earlier today.

21 Deflation of a saline filled breast
22 implant is generally harmless but carries the risk

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1 associated with additional surgery for replacement.
2 While these risks are not insignificant, they must be
3 viewed in the context of the patient's overall risk-
4 to-benefit ratio.

5 The Minnesota study, designed in
6 consultation with the FDA, found that patient
7 satisfaction with saline filled breast implants is
8 extremely high. Ninety-three percent of patients,
9 most of whom received implants for cosmetic breast
10 enlargement, reported that they were satisfied or very
11 satisfied with their surgery. Ninety-six percent said
12 they would make the same choice again.

13 Extensive scientific studies today
14 document the safety of silicone implants and the high
15 level of patient satisfaction. Much of the past
16 controversy surrounding breast implants has focused on
17 claims of a link between silicone and autoimmune
18 diseases.

19 While a saline filled breast implant
20 contains only sterile saltwater solution, its shell is
21 made of a silicone elastomer. As recently as August
22 of '99, the FDA stated in the Federal Register that no

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1 definitive link between immunologic or connective
2 tissue disorders and saline filled breast implants has
3 been found.

4 Further, after comprehensive evaluation of
5 the evidence for association of silicone breast
6 implants with human health conditions, the Institute
7 of Medicine concluded in June of '99 that there is no
8 definitive evidence linking breast implants to cancer,
9 immunologic diseases, neurological problems, or other
10 systemic diseases.

11 What then constitutes the major risks
12 associated with saline filled breast implants?
13 Besides deflation, there is the risk of capsular
14 contracture, tightening of the natural scar tissue
15 that forms around the implant, and it can cause breast
16 firmness.

17 The occurrence of capsular contracture is
18 unpredictable, and if severe may require corrective
19 surgery. In the Minnesota study, only four percent of
20 patients rated their reconstructed or augmented
21 breasts as hard, while 24.5 percent said their breasts
22 were slightly or moderately firm.

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1 While the ideal of implant surgery is a
2 soft, natural feeling breast, some degree of firmness
3 may be well tolerated by the patients, as evidenced by
4 the high rate of patient satisfaction recorded in that
5 same Minnesota study.

6 A concern associated with breast implants
7 is the possibility that the devices may interfere with
8 the early detection of breast cancer. Mammography of
9 the implanted breast requires special techniques and
10 additional X-ray views. However, recently published
11 University of Southern California study of breast
12 cancer diagnosis and survival among 3,182 women with
13 breast implants in Los Angeles County showed the stage
14 of cancer diagnosis was virtually identical to that of
15 all breast cancer patients in L.A. County.

16 In addition, the five year survival rate
17 was consistent with rates established by the National
18 Cancer Institute. There is no evidence that implants
19 cause breast cancer. In fact, two major studies have
20 shown a lower than expected incidence of breast cancer
21 in women with breast implants.

22 Plastic surgeons have seen first hand how

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1 a woman's quality of life can be tremendously improved
2 by these devices. Every plastic surgeon can provide
3 numerous stories about women whose self-confidence
4 flourished after augmentation mammoplasty.

5 We also know first hand of many mastectomy
6 patients who have expressed that they have only felt
7 themselves to be recovered from their breast cancer
8 experience when their bodies were restored with breast
9 reconstruction.

10 The responsibility that our patients
11 bestow on us as plastic surgeons when we perform
12 breast implant surgery is taken very seriously. We
13 believe that women should be fully informed of the
14 potential risks and benefits of implants and should
15 have the right to choose implants to restore their
16 breasts following cancer, trauma, or deformity, or to
17 achieve a satisfying breast appearance through
18 augmentation.

19 Women who would wish to have breast
20 implant surgery are often made to feel that the
21 procedure is frivolous and poses unnecessary risk.
22 Yet studies have confirmed that most of these women

1 experience improvements in self-esteem and body image
2 and quality of life.

3 We must also remember that there is no
4 alternative currently available to breast implants.
5 Autogenous procedures to reconstruct the breast
6 require extensive surgery and may not be an option or
7 are impractical for many patients. Autologous tissue
8 transfer for breast enlargement could not be
9 justified.

10 We believe that breast implants fill a
11 significant health need, and we will continue to work
12 to insure that women have access to this procedure and
13 the right to make their own informed choice to proceed
14 or not. The research findings of the recent years
15 have significantly restored women's faith in breast
16 implant safety and efficacy.

17 Thank you.

18 CHAIRMAN WHALEN: Thank you, Dr. Puckett.

19 Are there any questions from the
20 panelists?

21 (No response.)

22 CHAIRMAN WHALEN: Thank you, sir.

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1 DR. PUCKETT: Thanks.

2 CHAIRMAN WHALEN: Before proceeding to the
3 next speaker, I'm told that one of the speakers who
4 could not be here, Ms. Mullen from the Women's
5 Information Network against Breast Cancer, that Ms.
6 Brinkman will read a statement that was submitted by
7 her.

8 MS. BRINKMAN: Thank you. I was just
9 given this. So this in no way reflects any bias on my
10 part.

11 This is from Elizabeth Mullen --

12 CHAIRMAN WHALEN: As you're starting, do
13 know of any financial arrangement that that
14 organization has?

15 MS. BRINKMAN: I don't even know who she
16 is. So --

17 CHAIRMAN WHALEN: Thank you.

18 MS. BRINKMAN: I do not.

19 It's from Elizabeth Mullen, President, CEO
20 of Women's Information Network Against Breast Cancer,
21 written testimony.

22 I very much appreciate the opportunity to

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1 submit my written testimony to you for consideration.
2 I had hoped to be here today in person, but was unable
3 to make the trip from California due to circumstances
4 beyond my control. My remarks will adhere to the ten
5 minute oral testimony limit.

6 I am founder, President and CEO of the
7 national, nonprofit organization Women's Information
8 Network Against Breast Cancer. The acronym is WINABC.

9 As such, I am representing WINABC for the
10 purposes of this testimony and would like to
11 communicate from the perspective not only of an
12 advocate, but also as a breast cancer survivor who has
13 had a mastectomy and immediate post reconstruction
14 latissimus dorsi with a saline filled breast implant,
15 and finally as a woman who cares deeply about the
16 issue being addressed today and throughout this week:
17 the availability of saline filled implants and a
18 woman's right to choose.

19 Oh, she goes on to say at the bottom, "And
20 I have in no way been reimbursed for addressing this
21 panel." She says her organization has received grants
22 from a few pharmaceutical companies, Glaxo Wellcome.

1 "I am not a witness or party to a pending lawsuit, and
2 my income is not derived from breast implants."

3 My perspective as a breast cancer survivor
4 and as a woman. I was diagnosed with breast cancer
5 nearly seven and a half years ago at the age of 33.
6 Judging from the size of my tumor, my physicians
7 estimated that the malignancy had been there for seven
8 to ten years.

9 Breast cancer had not been on my
10 physicians' radar screens, nor had it been on mine.
11 I quite simply did not fit the profile of a woman with
12 breast cancer, or so it seemed.

13 Wrong assumptions had been made regarding
14 my health status, and as a result, when I was finally
15 diagnosed with breast cancer, my treatment options
16 were limited. Due to the size and location of the
17 tumor in my breast and the size of my breast in
18 relation to the size of the tumor, I opted for breast
19 conserving surgery. I would have, in essence, ended
20 up with a partial mastectomy.

21 Due to these factors, there was consensus
22 that a mastectomy was my best surgical option. I was,

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1 to say the least, fraught with sadness and fear over
2 the prospect of losing my breast, facing chemotherapy,
3 and the prospect of dying within two to three years.
4 I was overwhelmed, confused, and numb. Being
5 misdiagnosed for several years robbed me of some very
6 important choices.

7 I was fortunate that my surgical
8 oncologist called in a plastic and reconstructive
9 surgeon for my initial surgical consult. My first
10 glimpse of hope in the painful days following my
11 diagnosis was learning that breast reconstruction was
12 an option for me.

13 The prospect for my waking up after
14 surgery without a breast was devastating to me. When
15 my plastic surgeon explained that I could have an
16 immediate breast reconstruction, my outlook began to
17 improve, and I began to regain my strength of spirit.

18 Because of many factors, I was not a good
19 candidate for a tram flap reconstruction. So
20 reconstruction with an implant was my best option, my
21 only option, as it turned out.

22 I remember making love with my husband for

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1 the last time before my mastectomy and reconstruction.
2 It was so bittersweet. What would it be like after
3 surgery? There were so many unknowns.

4 I share this with you because the personal
5 and intimate perspectives of all women all too often
6 get bypassed in forums such as this.

7 Just as the science is critical, as you
8 consider the efficacy of saline filled breast
9 implants, so, too, is the conscience, body, mind, and
10 spirit of individuals who choose to have surgery with
11 implants, be it for cosmetic augmentation or breast
12 reconstruction.

13 How do you quantify hope, self-esteem,
14 body image, sexuality? How do you hope self-esteem
15 and a positive self-image impact of a 33 year old
16 woman fighting for her life after breast cancer
17 surgery, or as a teenage young lady with a chest
18 defect following reconstruction to correct the
19 anomaly, or a 50 year old woman who has never been
20 comfortable with her AA size breast, who following
21 breast augmentation experiences a new sense of
22 womanhood?

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1 I urge you to keep this human and humane
2 outlook in mind.

3 I am blessed to be married to the one and
4 only true love of my life, my high school sweetheart.
5 I have known Ken since I was 16 years old. We always
6 knew that we would get married, and for years we had
7 the name of our first child all picked out, Samantha
8 Ann Mullen, SAM for short, SAM, a daughter we never
9 knew. Because of my chemotherapy protocol, Ken and I
10 will never be able to have children together.
11 Although we never had been warned about it,
12 chemotherapy threw me into permanent menopause. I
13 never had a choice in the matter.

14 Choice, one word that means so much. When
15 a woman faces the diagnosis of breast cancer, she
16 experiences a range of feelings that often include
17 loss of control and grief over the possible loss of a
18 breast.

19 But the good news is women have choices,
20 including important choices in breast reconstruction.
21 Limiting these choices by limiting or eliminating the
22 availability of saline filled breast implants would be

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1 a tragic and devastating blow to women.

2 What's at stake here today and throughout
3 this week is a woman's right to choose, and here is
4 where my perspective shifts from that of an individual
5 patient and a women who has experienced first hand the
6 positive impact of breast reconstruction with an
7 implant to that of a woman's health advocate, working
8 to insure equal access to quality health care for
9 individuals.

10 My perspective as an advocate and CEO of
11 WIN Against Breast Cancer: "knowledge is the antidote
12 to fear."

13 I founded the WIN Against Breast Cancer
14 following my own experiences with breast cancer. The
15 WIN organization was established to provide patients
16 with the information and resources that they need to
17 make to make confident and informed health care
18 decisions. We place particular focus on helping women
19 and men understand their treatment options and
20 empowering individuals with the even knowledge about
21 their choices and health care.

22 Choice and knowledge, informed decision

1 making are at the core of WIN's organization, mission
2 and goals. WINABC strives to provide individuals from
3 all cultural and socioeconomic backgrounds with
4 responsible, unbiased information about breast health,
5 breast cancer, and personal health responsibility.

6 WIN was also founded to be a catalyst for
7 change in partnership and to serve as a conduit by
8 which individuals and organizations can be linked to
9 one another in areas of common interest and purpose.

10 I will leave the science to the scientists
11 and the clinicians, but I'd like to highlight a few
12 key points regarding the great implant debate.

13 The device. Breast implants have been
14 studied for 20 years and have been under intense
15 scrutiny for a large portion of that time.

16 The science is sound and ongoing.

17 Product information. I have been able to
18 see first hand and experience first hand the
19 improvements that have been made in the product
20 development with respect to saline filled breast
21 implants over the years.

22 I started off this portion of my remarks

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1 with a quote about knowledge, another important
2 development with respect to the devices under
3 consideration by this panel: saline filled breast
4 implants. Is the improvement in provider and consumer
5 education? The bottom line: we fear what we do not
6 know and understand.

7 As an advocate who has worked with
8 hundreds of women over the years and dozens of
9 providers, I can report first hand that what I
10 referred to is myth conceptions are oftentimes tragic
11 barriers to women seeking life saving breast cancer
12 screening and treatment services.

13 I cannot count the times women have called
14 our organization following a sound byte on the news
15 about, quote, the dangers of implants or the, quote,
16 deadly side effects of Tamoxifen or the, quote, long
17 term, ineffectiveness of lumpectomies.

18 Hype destroys hope. Misinformation leads
19 to disintegration of health. Overstated?
20 Unfortunately not.

21 Women often fear the prospect of losing
22 their breast to cancer more than chemotherapy or the

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1 disease itself. The fear is a barrier to women
2 examining herself or seeking screening and treatment
3 services. Oftentimes and tragically, women will
4 ignore a palpable lump for years and present in the
5 clinic with open sores on their breast in late stage
6 disease because of the fear of losing a breast.

7 Many women do not know that breast
8 reconstruction, immediate or delayed, is an option for
9 them. When women fully understand their options, the
10 benefits and risks, and are given access to peer
11 support, second opinions, and culturally sensitive,
12 linguistically appropriate, educational materials,
13 they are more likely to make intelligent, competent
14 treatment decisions and more likely will comply with
15 treatment.

16 And when physicians are made aware of
17 these issues and barriers, they can more effectively
18 communicate with their patients and improve outcomes.

19 I will never forget the day when I was
20 making rounds with a surgical oncologist. I was with
21 him as he delivered a breast cancer diagnosis to a
22 Latino patient. The patient clearly needed a

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1 mastectomy, but because of a variety of reasons
2 refused surgery.

3 On her second visit to the clinic to again
4 discuss options, her surgeon called me in and told the
5 patient that I had a mastectomy and reconstruction.
6 We showed her my reconstruction, explained the
7 procedure. The unknown of surgical outcomes was now
8 a known. She could envision the end result of a
9 breast reconstruction and knowledgeably and willingly
10 agree to the surgery.

11 Her choice was made real and tangible.
12 She chose treatment over fear and flight from
13 treatment. The choice, her right to choose, saved her
14 life. She was the rule, not the exception.

15 In closing, I am going back to the
16 beginning of my remarks. I was given my breast cancer
17 diagnosis over the telephone. The entire conversation
18 lasted no more than three minutes, three minutes
19 frozen in time that forever changed my life. It's a
20 time frame that makes me uneasy not because of a bad
21 memory, but because every three minutes another woman
22 is diagnosed with breast cancer.

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1 Every day women are seeking breast cancer
2 treatment options that include reconstruction with
3 saline filled breast implants, often their best and
4 only -- their only reconstructive option, an option
5 that can result in a new lease on life at a time when
6 life seems so fragile and precarious, a choice that
7 means hope, healing, and vitality to the all too many
8 women confronted with a diagnosis of breast cancer
9 every day in this country and around the world.

10 I will close with a favorite scripture of
11 mine. "Where there is no vision people perish."

12 It is my sincere hope that your vision,
13 insight and wisdom will result in preserving the
14 ability of saline filled breast implants and the
15 opportunity and right for women to choose whether or
16 not to use these devices.

17 Device? Funny. As I look in the mirror,
18 it's hard for me to consider that my feminine
19 silhouette is attributed to a device. This device,
20 this implant has become a part of me, and I dare say
21 has outlived my original prognosis of two to three
22 years by several years, for which I'm grateful on many

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1 levels. Other women deserve that chance.

2 Thank you.

3 CHAIRMAN WHALEN: Thank you for reading
4 that.

5 Before proceeding to the next speaker, if
6 there's anybody from either FDA or Holiday Inn in the
7 room who has the password to the thermostat and could
8 drop it a couple of degrees, I think we'd all be
9 immensely appreciative.

10 The other professional society that will
11 be address --

12 DR. BURKHARDT: I have a question for the
13 chair. May I ask a procedural question at this time?

14 CHAIRMAN WHALEN: Oh, procedural, yes.

15 DR. BURKHARDT: Yeah, a procedural
16 question.

17 We've heard lots of stories, individual
18 stories for and against this whole thing. In our
19 training session last night, the new members had a
20 training session with the FDA. My understanding was
21 that in our deliberations as we sit here, we are
22 precluded by statute from considering these individual

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1 experiences and experiential reports.

2 CHAIRMAN WHALEN: FDA questions I'll
3 deflect to Dr. Witten.

4 DR. WITTEN: In terms of when you make a
5 recommendation about reasonable assurance of safety
6 and effectiveness of each of the PMAs, you are to
7 consider the data in the PMA and your scientific
8 knowledge.

9 DR. BURKHARDT: Period?

10 DR. WITTEN: Yes.

11 DR. BURKHARDT: Thank you.

12 CHAIRMAN WHALEN: The other professional
13 society to address us this afternoon is the American
14 Society for Aesthetic Plastic Surgery represented by
15 Dr. David Sarwer.

16 DR. SARWER: Good afternoon. My name is
17 Dr. David Sarwer. I'm assistant professor of
18 psychology and psychiatry in surgery at the University
19 of Pennsylvania School of Medicine.

20 I'm testifying today at the request of the
21 American Society for Aesthetic Plastic Surgery which
22 will reimburse me for my travel expenses to this

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1 hearing. I have in the past received two small
2 grants, one from the American Society of Aesthetic
3 Plastic Surgery and one from the University of
4 Pennsylvania Research Foundation to support my
5 research on the psychological characteristics of
6 breast augmentation patients.

7 However, I do not derive any salary
8 support from these grants. I am not involved as a
9 witness or party to any pending lawsuit related to
10 breast implants.

11 Members of panel, I am here today to
12 present information relevant to your consideration of
13 the safety and efficacy of saline filled breast
14 implants. My comments are from a psychological
15 perspective and are based on my expensive -- extensive
16 experience --

17 (Laughter.)

18 DR. SARWER: Not so most expensive -- in
19 the area of the psychology of cosmetic surgery.

20 Over the last five years I have published
21 21 empirical papers, review articles, book chapters,
22 and discussions on the psychological aspects of

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1 plastic surgery. There articles have appeared in both
2 the plastic surgery and psychological literatures.
3 Many of these papers have focused on cosmetic breast
4 augmentation patients.

5 In 1999, I served as a chairman of a
6 symposium on cosmetic surgery at the seventh annual
7 Congress of Women's Health and Gender Based Medicine.

8 Finally, I've recently written a review
9 paper which is currently under editorial review
10 specifically focusing on the psychological aspects of
11 cosmetic breast augmentation surgery.

12 Therefore, I am uniquely qualified to
13 discuss the psychological issues related to cosmetic
14 breast argumentation.

15 The popularity of breast augmentation
16 surgery means that internists, obstetrician-
17 gynecologists, and many other women's health care
18 professionals are increasingly called upon to provide
19 appropriate advice and guidance concerning this
20 procedure.

21 As you are aware, breast augmentation
22 surgery has become increasingly common with women from

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1 a variety of age, racial and socioeconomic groups now
2 seeking the surgery.

3 Thus, I believe that much greater
4 sensitivity to the psychological issues of breast
5 augmentation is required from the medical community at
6 large.

7 Over the past 40 years, numerous studies
8 have investigated the psychological issues of breast
9 augmentation patients. The majority of these studies
10 were conducted with women who received silicone gel
11 filled breast implants.

12 Nevertheless, with the exception of
13 studies which have investigated the surgical
14 complications and satisfaction rates, it may be safe
15 to assume that the psychological motivations of women
16 who have received both silicone filled implants and
17 saline filled implants are similar.

18 Based on our published reviews of the
19 literature, my colleagues and I believe that there has
20 been a lack of solid data on the psychological
21 characteristics of breast augmentation patients.
22 While a variety of studies have been undertaken, most

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1 of them have suffered from methodological problems
2 that limit the confidence that can be placed in their
3 conclusions.

4 The results of more recent, more carefully
5 controlled studies, which I will share with you
6 shortly, have provided important new data in this
7 area.

8 It is surprising to many people that the
9 majority of women who seek breast augmentation are in
10 middle adulthood, married and have children. This
11 contradicts the frequently assumed stereotype of
12 candidates for cosmetic breast enlargement.

13 The preoperative psychological status of
14 these women has been studied through both clinical
15 interviews and formal psychometric assessments.
16 Clinical interview investigations have generally
17 suggested a high degree of psychopathology in breast
18 augmentation patients. However, these investigations
19 have a number of methodological shortcomings which
20 raise serious questions about their validity.

21 In contrast, studies that have used
22 standardized psychometric tests generally have found

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1 little evidence of psychopathology in these women.
2 Only one study has found greater symptoms of
3 depression in breast augmentation candidates as
4 compared to controls.

5 The methodologies used in some of these
6 psychometric studies also have limitations.

7 Intuitively many women seek breast
8 augmentation surgery because they are not satisfied
9 with the appearance of their bodies and their breasts.
10 While such concerns were often dismissed as trivial
11 vanity years ago, research over the past several
12 decades has demonstrated the importance of appearance
13 in everyday life. Not only are more physically
14 attractive individuals perceived more favorably than
15 those who are less attractive. It also appears that
16 more attractive individuals receive preferential
17 social treatment in both interpersonal and social
18 situations.

19 Given this knowledge, improving one's
20 appearance can be seen less as trivial vanity and more
21 as a positive, health self-care strategy. This
22 research, however, only explains the outside view of

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1 physical appearance. It does not account for the
2 inside view the way a person views his or her own
3 appearance.

4 This internal perspective of physical
5 appearance can be understood through the psychological
6 construct of body image which encompasses an
7 individual's perceptions, thoughts, feelings and
8 behaviors about the body. Body image, particularly
9 body image dissatisfaction, may be the most relevant
10 construct by which to understand the motivation of
11 cosmetic augmentation candidates.

12 Body image dissatisfaction is so prevalent
13 in our society that researchers have labeled a
14 normative discontent. One recent body image survey
15 suggests that 56 percent of American women report
16 dissatisfaction with their overall appearance, and 34
17 percent report a dissatisfaction with their breast
18 size.

19 Furthermore, body dissatisfaction in women
20 appears to have increased over the past several
21 decades, suggesting that the recent occupational,
22 economic, and political advances of women in this

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1 country have not helped improve their personal body
2 images.

3 My colleagues and I were the first to
4 empirically assess body image dissatisfaction in
5 prospective cosmetic surgery patients. Across several
6 studies, we found that women who seek cosmetic surgery
7 as compared to women who do not seek surgery report
8 greater body image dissatisfaction with the specific
9 body feature for which they are seeking surgery.

10 We have also completed three studies of
11 breast augmentation patients. These studies have
12 replicated our previous findings, suggesting that
13 women who seek augmentation as compared, again, to
14 women who do not seek surgery report greater
15 dissatisfaction with their breasts.

16 These studies have also provided more
17 specific information on the nature of this
18 dissatisfaction. For example, more than 50 percent of
19 augmentation patients reported that they avoided an
20 undressing in front of others and that they
21 camouflaged their preoperative breast appearance with
22 special brassiere or clothing.

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1 These upsetting experiences appear to have
2 a negative effect on self-esteem. In the most recent
3 investigation from our group, women who sought breast
4 augmentation reported more appearance related teasing
5 and a greater use of psychotherapy than did controls.
6 These results may suggest that a history of appearance
7 related teasing may be another variable that
8 distinguishes women who do and do not seek breast
9 augmentation.

10 Further, the greater use of psychotherapy
11 in these women suggest that they may be experiencing
12 negative emotional consequences as a result of their
13 breast dissatisfaction.

14 Studies of the psychological consequences
15 of breast augmentation have been largely anecdotal,
16 though the reported satisfaction rates, as we already
17 heard today, are encouragingly high. In the absence
18 of physical complications of surgery, interview
19 investigations have reported that the majority of
20 women experience psychological benefits, including
21 improvements in body image and self-esteem following
22 augmentation surgery.

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1 Two recent studies have provided even more
2 convincing evidence of the psychological benefits of
3 cosmetic surgery. Results from the first study found
4 that as compared to preoperative levels, cosmetic
5 surgery of patients reported significant improvements
6 in depressive symptoms and quality of life six months
7 after surgery.

8 Results from a preliminary investigation
9 have found similar improvements in body image, also
10 six months postoperatively. Thus, there is now
11 growing evidence to suggest that cosmetic surgery,
12 such as breast augmentation, leads to improvement in
13 at least three areas of psychological functioning:
14 body image, quality of life, and depressive symptoms.

15 A recent investigation of women who had
16 their silicone breast implants removed further
17 underscores the psychological impact of an altered
18 body image. Women who had their implants removed
19 reported less satisfaction with their appearance,
20 fewer positive appearance related thoughts, and
21 greater discrepancy between their ideal and post
22 explantation breast size.

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1 Thus, it appears that removal of a breast
2 implant, something which has occurred more frequently
3 as a result of prior controversies over silicone
4 safety, may have a profound effect, negative effects,
5 on psychological functioning.

6 In conclusion, recent evidence supports
7 the view that women seek breast augmentation to reduce
8 or eliminate their personal dissatisfaction with the
9 size and shape of their breasts. Based on what we
10 know of the importance of physical appearance in our
11 society, this desire should not be viewed as a
12 manifestation of psychopathology, but as a positive
13 mechanism for improving one's appearance and body
14 image.

15 Two recent studies suggest that cosmetic
16 surgeries, such as breast augmentation, result in
17 measurable improvements in body image, as well as
18 depressive symptoms and quality of life. Given that
19 the benefits of breast augmentation surgery are more
20 in the psychological than physical realm, more
21 research demonstrating the psychological benefits of
22 the procedure is clearly warranted.

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1 However, based on the current studies, it
2 is reasonable to assume that the vast majority of
3 women who choose breast augmentation surgery will
4 enjoy significant psychological benefits that would
5 otherwise be unavailable to them.

6 Thank you.

7 CHAIRMAN WHALEN: Thank you.

8 I think they get the award for the best
9 timing today because the last word was right when the
10 red light came on.

11 DR. SARWER: Yeah, but I also had that
12 slip of the tongue at the beginning.

13 CHAIRMAN WHALEN: Are there any questions
14 for Dr. Sarwer?

15 (No response.)

16 CHAIRMAN WHALEN: Just so the three
17 remaining individuals who are going to be talking to
18 us know, we will be getting to them in time.

19 We have one remaining consumer group to
20 hear from. Dr. Blais, Pierre Blais is from the
21 Chemically Associated Neurological Disorders, and in
22 view of Ms. Stansell's yielding of half of her time,

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1 would the timer please be set for 15 minutes?

2 DR. BLAIS: Thank you very much.

3 I differ from the other speakers inasmuch
4 as I am not a U.S. citizen. I'm here on invitation.
5 I'm not a member of the association, nor, for that
6 matter, of any advocacy association.

7 I do not derive income from the breast
8 implant trades, neither through implantation,
9 explantation, health care, diagnostic, marketing,
10 sale, or whatever.

11 I am here at my own expense. I have never
12 received funding from any source with respect to this
13 program.

14 I'm a former Canadian official with a
15 position very similar to our colleagues here from the
16 FDA. I had a similar role in Canada. I'm responsible
17 for what may be the largest breast implant or, for
18 that matter, general deep, long term implant study
19 ever taken worldwide. It has lasted now 25 years to
20 this day.

21 The part I wish to report today is a very
22 small segment of this study. It concerns 250

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1 specimens from a very large cohort of explanted
2 devices collected between about 1989 to almost the
3 present. Out of these, there were only a few that
4 were suitable for the type of study according to our
5 protocol.

6 The type of protocol that we had targeted
7 was one where we would look for contamination in
8 implants that had not failed. This is a minority of
9 implants that are removed, and they also included a
10 review of the mechanical issues surrounding the
11 fabrication of implants.

12 We have heard today about many things. We
13 have heard about how beneficial the implants can be
14 psychologically, how beneficial they will be to cancer
15 patients, the fact that they are liked by individuals
16 who have had deformity and so on. This may be so I
17 could agree with it. I applaud the studies. They're
18 very worthwhile.

19 My interests, however, are much more
20 mundane. I'm a scientist, and I'm also a
21 technologist. I've studied those devices now for far
22 in excess of 25 years. I go back to the '60s, and I

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1 have personal direct recollection from the Joseph
2 Kennedy hearings. Those of you who are my age will
3 remember that.

4 Now, what I wish to impress on you is that
5 the mention of science in the study, the retrospective
6 study is one thing, and that may be so, but the
7 mention of science in the context of fabrication and
8 engineering of the implant is not here. I have never
9 seen any evidence of intelligent engineering or
10 science in the design, the fabrication or, for that
11 matter, the post explantation analysis of these
12 devices. They are articles of commerce of very low
13 grade. They belong to technology. They do not belong
14 to science.

15 Those of you who still hold the view that
16 these things are scientific need only look at a few.
17 I have some here. I won't bore you with that they are
18 like, except to mention the part that I wish to draw
19 attention to.

20 Virtually anything we have pulled out of
21 patients over the last years that have not been
22 outright broken amongst the salines were all septic,

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1 septic to a level which is unprecedented in studies on
2 scientific implants. They were visibly contaminated
3 with all types of flora, something that by itself
4 should be a sobering thought for any physician who
5 puts them in and who takes them out.

6 What I want to draw your attention to is
7 a very small segment of our study which has concerned
8 saline implants. Two hundred and forty-two implants
9 that fall into a certain category, a subclass of
10 saline implants, 74 that fulfill criteria of being
11 "intact" in the surgical sense of the word, six of the
12 users reporting problems prior to removal, such as
13 deflation, a few of them claiming systemic
14 complications -- I'm not competent to discuss it --
15 three users only involved in litigation.

16 Out of these 74, 12 were very old
17 implants, what we call the Jenny Mark I, which is a
18 unique implant introduced in 1968 with a very coarse
19 and, by the way, highly secure valve system. These
20 are the ones that habitually are removed without
21 rupture. It's an interesting observation.

22 The others, 62 of them, bearing the same

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1 type of valve, this is what we call a forward valve or
2 an apex valve. Those of you familiar with the trade
3 will know what this symbols is. It is simply a hole
4 with a diaphragm at the bottom and a plug at the top
5 to cap it.

6 The early ones, the Jenny, were quite
7 secure. The second generation which was introduced in
8 '76 is not, nor is it designed to be, as best as I can
9 figure out. This type of implant is designed to leak
10 intentionally to support a claim of control of
11 contracture. It is by itself an engineering
12 misrepresentation. It is not a single product. It is
13 made by nearly everyone in the trade. More than 18
14 different manufacturers have made it. The values all
15 share the same process, the same problem because they
16 all come from the same place. They are a commodity.
17 They are an article of commerce marketed by a single
18 manufacturer, sold to others.

19 Now, the other part of importance in this
20 sub-study is that not only were the values of this
21 design not terribly good in terms of manufacturing,
22 but they did not even fit. The parts were not mated

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1 correctly. To put it in very vulgar terms, it was
2 like having a cork on a wine bottle which is about
3 five millimeters smaller than the hole, so that if you
4 put the cork in the bottle, it falls to the bottom.

5 Now, I ask you as a technologist, as a
6 scientist, as a physician, as an administrator, as a
7 layman, as a user, what would you think of a company
8 that presents to you with an elaborate pre-market
9 submission claiming elaborate studies and good science
10 and good engineering, who cannot manufacture an object
11 to the right dimensions? What credibility will the
12 PMA have?

13 Now, there are many things. I've made a
14 formal submission, and I'm very grateful to Dr. Krause
15 for accepting it. It will be given to you.

16 Unlike many others, it involves 20
17 recommendations on what the committee has no option
18 but to consider if they ever find that one of the
19 submissions complies with the terms of the
20 requirement. I'm not saying there are any. I have
21 yet to find one, but there could be one.

22 If such an implant ever appears in your

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1 files and you're required to give it assent as an
2 approved product, then you have no option but to
3 consider implementing the 20 recommendations that are
4 made there, and many of them are quite surprising.
5 They're also very old because the same recommendations
6 are culled out of meetings that took place incidental
7 to classification panels in 1978 right through to
8 about 1983 and were reiterated again in the late '80s
9 when the gel implant issue arose.

10 I'll just point to a few of them. If you
11 wish to have further elaborations, I can do that
12 personally, if an invitation.

13 One of the main issues that I have is that
14 the FDA must address retrospectively warnings for
15 users of the implants. They are exposed to risks
16 which have never been made clear to them and have been
17 denied. Yet they are undeniable in the light of
18 laboratory findings.

19 The other issues have to do with
20 disclosure and the clearing up of issues that are
21 called possibilities, remote risks as opposed to
22 inevitable, time dependent certainties.

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1 These implants are literally replete with
2 certainties. They are not probabilities.

3 And then finally I have to deal with the
4 issue of breast feeding. In the light of any
5 reasonable person who is briefed about breast
6 physiology and in the light of the laboratory findings
7 that we are getting from saline implant, there is no
8 basis in any science, any technology, not even in
9 psychology, that would justify breast feeding, and as
10 surprising as it sounds, it has nothing to do with the
11 offspring. It has to do with the very principle on
12 why implants are put in in the first place.

13 If you attempt breast feeding with an
14 implant, you will have a good chance of bringing the
15 breast back to its pre-implantation condition, breast
16 involution. It's all over medical texts.

17 The issue of the so-called selfishly
18 oriented recommendation against breast feeding is
19 absolute. It is a cosmetic issue and also one of
20 risk.

21 Now, the issue of the offspring is
22 secondary, but it's just as important in the ethical

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1 sense because we now have implants that are not secure
2 in terms of integrity, which are known to be colonized
3 by a broad range of microorganisms which have access
4 to the breast, and the breast is fully engorged and
5 responsible for distribution of milk precursor product
6 to the implant.

7 Therefore, the implant constitutes a
8 direct channel for transmission of an infective vector
9 to the offspring. This concept is so old that you
10 will find it in European texts in 1965.

11 Contrary to opinions expressed this
12 morning, the saline implant is not a 1968 discovery.
13 It's a 1960 discovery, and to make it even more
14 embarrassing, it's a Canadian one at that. It is my
15 Breton who has foisted this on you. It is older than
16 the gel implant. It's been known since the beginning
17 that they constituted a microbiological hazard that
18 would preclude absolutely any recommendation for
19 breast feeding.

20 Finally, to conserve and try to establish
21 a record of being timely, the issue of radiography
22 must also be addressed. It is also transparently

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1 obvious these devices, the very shell is structured
2 and is radiopaque. As such, the uniqueness of the
3 shell, its structure and its peculiarities, preclude
4 any form of meaningful radiodiagnostic oncology
5 aspect. The implant is not just a confusing factor.
6 It is capable of generating both false positive and
7 false negatives. Therefore, there should be an FDA
8 recommendation with respect to deemphasizing any value
9 of radiographic assessment for tumors.

10 Then last of all, I have the issue of
11 cost. How and why did Canada governments become
12 interested in breast implants? It had nothing to do
13 with the health of the user, the offspring, the
14 safety, or the cosmetic aspects, what we call
15 efficacy. It had to do with cost.

16 Some of you know that Canada operates
17 under a medicare system. In the early days of this
18 debate, which is the late '70s, I performed a study on
19 health care cost, which is easy to do. It's only a
20 computer issue in Canada, as we have the record, and
21 a very strong outcome came.

22 Anyone implanted consumed four times our

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1 health care resources of a corresponded age adjusted
2 individual. I haven't done the study since. I'm
3 scared.

4 Now, this has enormous implications. If
5 you do a macroeconomic analysis of this phenomenon,
6 you will observe that both primary and secondary
7 health care costs of some states and incidental to
8 Medicare/Medicaid, which does operate in some states,
9 you find that it exceeds in some cases the actual
10 promotion studies, the cost of promoting the
11 technology.

12 Now, as a result of this, everyone,
13 whether or not they have implants, are affected. They
14 are affected in the sense that third party insurers,
15 HMOs, and everyone else who is in the health care
16 funding business is looking at breast implants with
17 much concern for good reasons, because they attract
18 health care procedures, and they attract health care
19 costs.

20 One doesn't have to be the rocket
21 scientist to figure this out.

22 Finally, the issue, the last issue, I made

1 a small omission in disclosing conflict. It may not
2 be a conflict. I have consulted for everybody, the
3 breast implant industry, the breast implant
4 professionals, the attorneys for defense, attorneys
5 for plaintiffs, third party insurers, governments, you
6 name it. I have done it, but I have not derived a
7 living from it.

8 And finally, I do have an involvement as
9 a witness, and it's a witness in Canada called a
10 material witness incidental to a criminal
11 investigation of the Canadian government surrounding
12 wrongdoings in the approval process of medical
13 devices.

14 Thank you very much.

15 CHAIRMAN WHALEN: Dr. Burkhardt

16 DR. BURKHARDT: Is it Dr. Blais?

17 DR. BLAIS: Yes, it is, sir.

18 DR. BURKHARDT: Thank you.

19 A couple of things that I couldn't
20 understand. I'm just a little dense about this stuff,
21 the thing that you said. You said that you had
22 removed 74 intact saline implants.

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1 DR. BLAIS: They're out of a group --

2 DR. BURKHARDT: I'm not finished yet.

3 DR. BLAIS: I'm sorry. I apologize.

4 DR. BURKHARDT: You removed 74 intact
5 implants. Then you commented that the valve looked
6 like it had been made to leak, and I don't understand
7 whether the implants you removed were intact or
8 deflated or what. What was the relationship there?

9 DR. BLAIS: They were intact in the sense
10 of the word that you would use in your own operative
11 report, Dr. Burkhardt.

12 DR. BURKHARDT: But were they deflated?

13 DR. BLAIS: They were fully inflated.
14 Many of them were even over inflated.

15 DR. BURKHARDT: So they had not leaked.

16 DR. BLAIS: Correct. However, this is not
17 true --

18 DR. BURKHARDT: That was the answer to my
19 question. I just wanted to understand that.

20 Now, in terms of transmitting an infected
21 vector to the offspring, it's my understanding, and we
22 have an expert here who might be able to help us, that

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1 about 95 percent of lactating mother's milk is
2 contaminated with staff epidermatis. It's a normal
3 organism in the milk, and this is the predominant
4 organism that is recovered from around implants.

5 So it's not clear to me why you think that
6 the implant itself is a vector in transmitting that.

7 DR. BLAIS: Yes, it's three questions
8 actually that you have directed, and I'm familiar with
9 the microbiology of the breast. In fact, it's not
10 limited to stapholocci. It includes also propioni
11 bacticne and many other things, the natural flora of
12 the contaminated functional breast.

13 However, the organisms in those implants
14 were not of this genus. They belonged to the
15 mycobacteria family for reasons I can't go into, but
16 now I show you the diagram of this valve again, and I
17 tell you that it is not secure.

18 Even though the implants were inflated,
19 which puzzled us for a time, our modeling studies
20 showed that the valve functioned as a pump. It would
21 take extracellular fluid occupying the intracapsular
22 space and through the user's habitual movements, this

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1 would produce cyclic compression, and it drive fluid
2 within the implant.

3 Therefore, the implant leaked not just one
4 way, but in both directions and --

5 DR. BURKHARDT: Thank you very much.

6 DR. BLAIS: -- therefore, whatever is in
7 would get out into the breast.

8 DR. BURKHARDT: Thank you.

9 DR. BLAIS: Thank you.

10 CHAIRMAN WHALEN: Yes, Dr. Dubler.

11 MS. DUBLER: On the very last page of your
12 handout, you have a comment on publication.

13 DR. BLAIS: Yes.

14 MS. DUBLER: And how difficult it is to
15 get these sorts of negative data published.

16 DR. BLAIS: Yes.

17 MS. DUBLER: Has the government of Canada
18 -- has your report in any way been submitted formally
19 and accepted by any agency of the Canadian government?

20 DR. BLAIS: No, Doctor. The report that
21 you have in your hand was finished yesterday. You are
22 privileged to have its first copy, or either cursed

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1 with having its first copy.

2 MS. DUBLER: Thank you.

3 DR. BLAIS: I have published many things.
4 I have not and deliberately avoided publication in
5 this area as it has been painfully difficult to
6 collect clinical material, and that could be the
7 object of another presentation, but it has no place
8 here.

9 CHAIRMAN WHALEN: Thank you.

10 We have three remaining individual
11 consumers who were segregated into this separate area
12 this morning due to some time constraints.

13 First, Ms. Diane Griffith.

14 And these are five minute presentations,
15 please.

16 MS. GRIFFITH: Mine may go about five and
17 a half. I hope you'll bear with me. I timed this the
18 best I could.

19 Well, let's see. My name is Diane
20 Griffith, and my travel has not been paid by anyone
21 else. I'm not Social Security disability and that's
22 my source of income.

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1 I have no financial ties with any
2 organization. I am a party to the Dow Chemical/Dow
3 Corning lawsuit, and I don't perform surgical
4 procedures.

5 I'm making a statement on behalf of Dr.
6 Arthur C. Sehalski (phonetic) of the University of
7 Southern Illinois. He's a scientist, an immunologist
8 and could not be with us this afternoon.

9 The statement is confined to issues of the
10 structural integrity within the human body of the
11 shell of prothesis known as silicone gel breast
12 implants and saline filled breast implants.

13 The statements quoted during the next five
14 minutes come from two sources, namely, one, the 1999
15 National Academy press publication titled "Safety of
16 Silicone Breast Implants," and, two, the 1999
17 published, peer reviewed paper by Dr. Eugene P.
18 Goldberg and co-authors, titled "Silicone Gel Breast
19 Implant Failure and Frequency of Additional
20 Surgeries."

21 Analysis of 35 studies reporting
22 examination of more than 8,000 explants. In the

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1 executive summary of the Institute of Medicine's 1999
2 publication, the following statement appears in the
3 second paragraph of page 3. "Precise frequencies of
4 the rupture of gel filled or the deflation of saline
5 filled implants are not available. The properties of
6 these devices can affect rupture or deflation and have
7 changed markedly over time, and particularly in the
8 case of gel implants. It has not been possible to
9 reliably diagnose and study rupture in an unbiased
10 cross-section of implanted women."

11 Continuing, "rupture frequencies in the
12 past have been considerable, and the rupture rate of
13 current models has yet to be measured over the
14 relevant periods of time."

15 Assuming the accuracy of the statement, of
16 the sentence just quoted, and given the absence since
17 this statement by the IOM committee was made of
18 evidence to the contrary, why is the advisory
19 committee even now considering a pre-market approval
20 application for saline inflatable breast prosthesis.

21 It is not the labeling information
22 available to the prospective saline implant recipient

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1 that establishes or certifies safety. Labeling
2 information merely informs the prospective recipient
3 of risks. What it does not do and cannot do is
4 provide substantial human based evidence on the
5 duration of the integrity of the sell within women.
6 Is this not obvious?

7 Are saline inflatable breast implanted
8 women again to serve as a test population to determine
9 safety, to determine rate of rupture? Doesn't the
10 evidence from the studies conducted at the University
11 of Florida's Biomaterials Center and the Tampa Bay
12 Cranial-Facial and Plastic Surgery Center show a
13 direct and suitable, significant correlation of
14 implant duration with percent shell failure?

15 And don't the studies of Goldberg and co-
16 workers credibly reveal a failure rate of 30 percent
17 at five years, 50 percent at ten years, and 70 percent
18 at 17 years?

19 In 1993, the AMA Council on Scientific
20 Affairs suggested that the shell failure rate was four
21 to six percent, and is this not true that the FDA
22 itself has stated that five percent rupture is "not a

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1 safety standard that the FDA can accept"? Has the FDA
2 now changed its mind?

3 We would hope not.

4 Thank you.

5 CHAIRMAN WHALEN: Thank you.

6 Next is Dr. Anne Kasper.

7 DR. KASPER: My name is Anne Kasper, and
8 I've been an advocate social science researcher and
9 public policy expert in women's health for more than
10 25 years. I'm currently a senior research scientist
11 with the Center for Research on Women and Gender at
12 the University of Illinois at Chicago, which is a
13 national center of excellence in women's health.

14 I've conducted two studies of women with
15 breast cancer, the most recent study completed in May
16 of '99 and supported by the U.S. Agency for Health
17 Care Research and Quality.

18 I'm the co-editor of a book on breast
19 cancer forthcoming later this year.

20 I've not received any travel money nor do
21 I have financial ties with any industry or health
22 society, and I am not associated with any implant

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1 lawsuits, nor do I derive income from implants in any
2 way.

3 I'm pleased to present testimony to you
4 today and thank you for the opportunity to do so. The
5 focus of my testimony will be on women's perceptions
6 of the safety of breast implants following mastectomy
7 and the importance or lack of importance breast
8 implants have in their recovery from breast cancer.

9 In my testimony I draw on the experiences
10 of 53 women who participated in the two qualitative
11 research studies for which I was the principal
12 investigator.

13 Most of these women diagnosed with breast
14 cancer had a choice of treatment between lumpectomy
15 with radiation and mastectomy. Although since 1985 we
16 have known that the science has demonstrated equal
17 survival with these two forms of treatment, individual
18 women have their preferences.

19 Many of the women in my studies chose
20 mastectomy for several reasons. One, they feared that
21 lumpectomy would leave cancer remaining in the breast.

22 Two, they were afraid of the long term

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1 effects of radiation.

2 Most important, however, their choice of
3 mastectomy was made possible by the availability of
4 breast implants and the assurances given them by their
5 physicians.

6 The women were assured by their physicians
7 that breast implants are safe and effective. Indeed,
8 if any of the women had known at the time that neither
9 silicone gel implants nor saline breast implants have
10 never been approved by the FDA as safe and effective,
11 they would be astonished.

12 As these women weighed their choices
13 between lumpectomy and mastectomy, the issue of safety
14 and effectiveness of implants did not enter their
15 equations. Rather, like most Americans, they trusted
16 their doctors, and they assumed that some independent
17 authority had tested and approved the devices their
18 doctors would assert in their chests.

19 In some, the belief that implants were
20 safe and effective made the choice to undergo a
21 mastectomy possible for most of these women. Without
22 this belief, I contend that few of the women would

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1 have had mastectomies, and their treatment choices
2 would have been severely limited.

3 In a paper published in a peer reviewed
4 journal, I discuss the effects of breast loss and
5 breast reconstruction for the women in the earlier of
6 the two studies. The women in this study stated that
7 their physicians promoted breast reconstruction as
8 important to the women's recovery from breast cancer
9 and to a renewed sense of well-being.

10 A majority of the women who underwent
11 mastectomy chose implants because they hoped to
12 replace the breast lost to cancer, wanted to erase the
13 memory and reminder of cancer, and believed that
14 reconstruction would make them feel whole and normal
15 again.

16 However, when the women were able to
17 reflect back on their experiences, the majority of
18 them were not convinced that breast reconstruction had
19 meet their hopes and expectations, nor the assurances
20 of well-being promoted by their physicians. The women
21 found that reconstruction did not erase the reality of
22 cancer, nor did it assure their return to normalcy.

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1 Neither did the implant replace the lost breast.
2 Rather, the reconstructed breast was a physical
3 approximation that had none of the sensory, sexual, or
4 maternal capacities of the normal breast.

5 Many of the women sensed that the sole
6 purpose of the implanted breast was for it to appear
7 to be what it was not. Many of the women had a sense
8 of deception, deceived by their doctors, by their own
9 expectations, and by the implant itself.

10 Breast reconstruction with implants should
11 remain a choice for all women who have lost a breast
12 to cancer. However, the FDA has an opportunity to end
13 another deception, that breast implants are safe and
14 effective for women who have had breast cancer.

15 I urge this panel to not approve saline
16 inflatable breast implants until appropriate studies
17 have determined whether or not these implants are safe
18 in the short and the long term for women who have had
19 breast cancer.

20 Thank you.

21 (Applause.)

22 CHAIRMAN WHALEN: Thank you.

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1 Are there any questions?

2 DR. BURKHARDT: Yes, I have a question.
3 In terms of breast reconstruction not duplicating the
4 real thing, we all know that's the case. Is that the
5 reason for your recommendation that we don't
6 approve --

7 DR. KASPER: No. I'm just telling you
8 that the women had a lot of faith in their implants.
9 They had great hope as to what the implants would be
10 for them, and that they were not a perfect replacement
11 was a disappointment to them. Even though many of
12 them had been told by their doctors it wouldn't be
13 perfect, it was for them, for many of them, it was far
14 less than perfect.

15 And the point I think I was trying to make
16 was the risks associated with implants for many of
17 them were not worth it because the satisfaction levels
18 were not high.

19 DR. BURKHARDT: So is it your
20 recommendation then that until the implants can be
21 made more perfect we not approve them?

22 DR. KASPER: No. It's really more an

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1 issue of safety and effectiveness. I mentioned that
2 because this was what some of the women in my studies
3 had told me about implants, and I think it simply
4 behooves the FDA when dealing with women's lives to
5 have the highest standard regardless of other issues,
6 as well.

7 DR. BURKHARDT: Thank you.

8 DR. BANDEEN-ROCHE: I'm sorry. I think I
9 just realized that I didn't quite put together
10 everything that you said. At the end of your
11 presentation, I thought I heard you say that implants
12 should remain an option for women who had had their
13 breast --

14 DR. KASPER: I breast reconstruction.

15 DR. BANDEEN-ROCHE: Breast reconstruction.
16 Thank you.

17 DR. KASPER: Should remain an option, yes.

18 DR. BANDEEN-ROCHE: Thank you. Thank you.

19 CHAIRMAN WHALEN: Thank you, Dr. Kasper.

20 Next we'll hear from Ms. Carol Sherman.

21 MS. SHERMAN: Hello. Although no less
22 passionate about my statement, this should only take

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1 about two minutes.

2 First, I'd like to thank you for listening
3 to me today. I feel it's important for the panel to
4 hear my very positive experience with the saline
5 breast implant.

6 A little over a year ago I was diagnosed
7 with early breast cancer. Within two weeks of the
8 diagnosis I had a mastectomy and immediate
9 reconstruction with a saline filled breast implant.

10 The emotional trauma of going from a
11 totally health and fit person to someone who discovers
12 they have this dreaded disease is overwhelming, to say
13 the least. As you can imagine, there were many very
14 emotional thoughts going through my mind, mostly
15 having to do with am I going to live.

16 At the same time there was one good thing.
17 I never had to envision myself with a deformity. I
18 never even had to think about myself without a breast,
19 not for one day.

20 I still remember my doctor's words. "But
21 you can have immediate reconstruction and wake up from
22 surgery with a breast." I took tremendous comfort in

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1 those words, and I was informed of both the benefits
2 and the risks at that time.

3 Most importantly, I was luck enough to be
4 able to take comfort in the good news that my cancer
5 was caught early. I thought to myself, as long as I'm
6 healthy and free of the disease I don't care if one
7 breast will be filled with a saline filled implant
8 instead of breast tissue.

9 What I did care about was whatever the
10 filler, I still had a breast. I was lucky enough to
11 beat this disease. I didn't want a daily reminder.
12 I didn't want to be ravaged with a missing breast. My
13 self-esteem could not have handled that.

14 A very important part of surviving this
15 kind of emotional trauma for me was to keep things as
16 normal as possible, to bring normalcy back to my life
17 as quickly as I could.

18 Within four weeks of my surgery, I put on
19 a sports bra feeling comfortable and looking like I
20 had perfectly normal breasts and went back to my
21 regular and fairly rigorous workout schedule. From
22 day one, I have had absolutely no problems with my

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1 implant.

2 About a month later, I attended a special
3 family event where comfortable and feeling good about
4 my appearance, I was able to wear a favorite formal
5 gown. Maybe four to six weeks after that, wearing
6 another favorite stretch bathing suit to the pool was
7 not even an issue for me. You couldn't tell that
8 three months prior I had had a mastectomy because I
9 had reconstruction with a saline filled implant.

10 I felt like me, normalcy. I know the most
11 important part of my emotional recovery was returning
12 to all of the theaters of my life in my normal way.
13 Thank God I had this option. I had the option to feel
14 whole, my body intact, with two breasts.

15 I don't even want to think about where I
16 would be emotionally if I didn't have that option.
17 It's a personal decision. I feel very strongly that
18 all women like me should have the option to choose
19 saline filled breast implants as long as they're fully
20 informed of both the benefits and the risks. It's a
21 matter of emotional health.

22 Thank you.

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1 CHAIRMAN WHALEN: Thank you, Ms. Sherman.
2 Are you at all involved with any practice
3 or company that is involved with putting these devices
4 in?

5 MS. SHERMAN: No, I'm not.

6 CHAIRMAN WHALEN: Are you involved in any
7 lawsuit that involves breast prosthesis?

8 MS. SHERMAN: No, I'm not.

9 CHAIRMAN WHALEN: Thank you.
10 That being done, we will now proceed with
11 the presentation by Dr. Celia Witten, Director of the
12 Division of General and Restorative Devices, to
13 discuss the regulation of saline filled breast
14 prostheses.

15 DR. WITTEN: Thank you. Thanks for your
16 patience during my effort to enter the 21st Century.

17 Good afternoon. I'd like to welcome
18 everyone to this meeting of the General and Plastic
19 Surgical Devices Advisory Panel.

20 I'm Celia Witten, Division Director of the
21 Division of General and Restorative Devices at the
22 FDA.

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1 Over the next few days, we will be asking
2 you to provide us with your expert recommendations on
3 three pre-market applications for saline filled breast
4 implants.

5 You are also charged with the very
6 important task of providing us with recommendations
7 regarding the kind of information that is important to
8 provide in patient labeling so that women can be
9 adequately informed.

10 I'm going to provide some brief background
11 information for today's meeting. I will summarize the
12 regulatory history of saline filled breast implants
13 and the events that bring us here today. I will
14 summarize the types of information provided the
15 sponsors to assist them in planning to collect the
16 preclinical and clinical data needed to support a pre-
17 market approval application.

18 This information is described in the draft
19 breast implant guidance document. This document was
20 originally provided in 1994 and most recently updated
21 in 1999. The recent updated version incorporated the
22 clinical study design elements that were highlighted

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1 in the points to consider letter issued to industry in
2 June of 1996, which I will also summarize briefly.

3 I will speak also about what we have
4 learned from the literature since the time that these
5 products were classified.

6 As has already been noted here today,
7 saline breast implants have been on the market since
8 before 1976. FDA classified these products as Class
9 III products in 1988. Because these products were
10 grandfathered as pre-amendments products, they were
11 allowed to remain as marketed products until such time
12 as FDA issued a rule calling for safety and
13 effectiveness information. New products could enter
14 the market via the 510(k) pathway during this time.
15 Products could also be made available during
16 investigational study.

17 When FDA issued a rule calling for safety
18 and effectiveness information in a pre-market approval
19 application, termed PMA, this regulatory status
20 changed. FDA issued the call for submission of pre-
21 market applications for the saline filled breast
22 prosthesis on August 19th, 1999. The sponsors had 90

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1 days from the time of that call to submit a PMA and
2 have it filed.

3 All products need to have an approval of
4 the pre-market application within 180 days of that
5 call that was issued on August 19th in order to remain
6 on the market. Thus, the review process for these
7 pre-amendments products, which are already on the
8 market at the time that safety and effectiveness data
9 is called for, is different with respect to timing
10 from the review of PMAs for novel products that are
11 not yet on the market.

12 For pre-amendments products, there is
13 limited time for interaction with sponsors during the
14 review process prior to the panel meeting because of
15 the 180-day time frame until products are either
16 approved or off the market.

17 In addition to working interactively with
18 sponsors prior to the call for PMAs, we continue to
19 work with sponsors during the review process.

20 FDA has provided guidance both in written
21 form and in discussions with sponsors to assist
22 sponsors to develop the data needed to support a pre-

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1 market application. The guidance document for these
2 products that is available provides manufacturers with
3 information regarding data to submit in several
4 important areas.

5 In particular, the chemistry section
6 describes -- suggests how to describe and characterize
7 the device, and the toxicology section includes a
8 description of the types of biocompatibility
9 information that is necessary.

10 Mechanical testing as described in the
11 type of clinical data need is also covered.

12 As I mentioned before, the current
13 guidance document is a revision of an older version.
14 The clinical portion has been incorporated -- has been
15 updated to incorporate other information the FDA
16 provided to sponsors. In particular, I want to note
17 in 1996 the letter that FDA issued to sponsors and to
18 industry that outlined essential elements of a
19 clinical study of these products. It is worth
20 highlighting some key points.

21 The FDA suggested a sample size adequate
22 to determine the adverse event rate with reasonable

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1 precision and suggested 500 women be followed to the
2 end of the study. The suggested worst case precision
3 within which to be able to describe the incidence of
4 adverse events, such as deflation, was plus or minus
5 four percent.

6 Separate augmentation and reconstruction
7 cohorts were suggested because of the potentially
8 different performance in those groups.

9 A two year minimum follow-up pre-market
10 was suggested in that letter. It was also suggested
11 that sponsors plan ten years' total follow-up, some of
12 the follow-up to be performed post market. The letter
13 suggested follow-up intervals, and in addition to the
14 primary study endpoints, quality of life, and
15 connective tissue disease screening were suggested.

16 Since 1988, when these products were
17 originally classified, there have been a substantial
18 number of public contributions to the scientific
19 literature that have added to our knowledge of these
20 products. Although there are a number of possible and
21 actual types of complications described in the
22 literature, I would like to touch briefly on two types

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1 of complications, in particular: connective tissue
2 disease and local complications and re-operations.

3 I would like to discuss what we have
4 learned since 1988 these two subjects. There have
5 been a number of epidemiologic studies investigating
6 the potential contribution of these products to the
7 development of connective tissue disease. It appears
8 from the literature that there is no or at most a
9 small increased risk of connective tissue disease from
10 these products.

11 There are some limitations to the studies
12 performed, however, and these include the
13 heterogeneity of the products in most of the studies
14 and the fact that some of these studies looked at
15 classical connective tissue disease, but were not
16 designed to assess a typical connective tissue
17 disease.

18 We have also learned from the literature
19 that the risk of local complications and re-operations
20 for these products as a whole is not insignificant.
21 Local complications can include deflation,
22 contracture, infections, breast pain, and hematoma.

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1 These complication rates are reported in
2 the literature very widely. The FDA and DHHS
3 commissioned a report by the Institute of Medicine on
4 the safety of silicone breast implants based on
5 information in published literature. The Institute of
6 Medicine review included saline breast implants which
7 have silicone elastomer shells. The Institute of
8 Medicine report concluded that local and perioperative
9 complications are the primary safety issue with
10 silicone breast implants. This group in their report
11 also noted a deficiency in the literature with respect
12 to product specific information.

13 Over the next day and a half, you will be
14 reviewing the product specific information that
15 sponsors have provided in their PMAs. You will be
16 asked to evaluate the information in each pre-market
17 approval application and advise us as to whether there
18 is sufficient information in each application to
19 provide a reasonable assurance of safety and
20 effectiveness.

21 You will be asked to make your
22 recommendations based on data contained within the

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1 PMAs and based on your scientific knowledge. You will
2 be provided a list of questions for each PMA to
3 consider as you review the data. Each application
4 will be considered separately on its own merits.

5 We have heard this morning a number of
6 comments from the public, and one of the themes that
7 emerged is the important question about adequate
8 informed consent from patients and how to make sure
9 that patient consent is truly informed.

10 On Friday, we will seek your guidance on
11 the important task of assessing what information we
12 can provide to women to best assist them to make
13 informed decision regarding breast implant surgery.

14 The FDA very much appreciates your giving
15 of your time and expertise to accomplish this
16 important task. And now I'm going to turn it back
17 over to you, Dr. Whalen.

18 CHAIRMAN WHALEN: Thank you, Dr. Witten.
19 Does the panel have any questions for Dr.
20 Witten?

21 (No response.)

22 CHAIRMAN WHALEN: Thank you very much.

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1 DR. WITTEN: Thank you.

2 CHAIRMAN WHALEN: Next, Dr. Wendie Berg
3 will discuss considerations of imaging patients with
4 breast implants.

5 Dr. Berg.

6 DR. BERG: Thank you, Mr. Chairman,
7 members of the panel.

8 If I can have the lights down a little
9 bit, as a radiologist.

10 (Laughter.)

11 DR. BERG: Can I have the next slide,
12 please?

13 I'm going to be presenting imaging
14 considerations largely focusing on breast cancer
15 diagnosis in women with breast implants. Rupture,
16 particularly with saline implants, is really a
17 clinical diagnosis.

18 Periprosthetic fluid is a common finding
19 on imaging, but we dismissed this. It's not thought
20 to represent leakage on the whole, and again, I'm
21 going to focus my comments on detection of breast
22 cancer.

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1 Could I have the next slide, please?

2 We can argue about the specific number of
3 women who have undergone breast implantation, but
4 approximately two million women in the United States
5 are affected by it, and again, most of my comments are
6 going to be directed to women with augmentation rather
7 than reconstruction since we do not generally image
8 the breast after mastectomy.

9 If one considers the rate of breast cancer
10 to be approximately one in nine over a course of a
11 lifetime, we can estimate that roughly 200,000 women
12 with breast implants will develop breast cancer.

13 Next slide, please.

14 Mammography remains the standard for early
15 detection of breast cancer. The goal, of course, is
16 to detect breast cancer before it becomes palpable at
17 an earlier, more curable stage. We know from the
18 literature that 90 to 95 percent cure rates are
19 achievable when breast cancer is detected at Stage 0
20 or Stage 1, and this is nonpalpable disease, largely
21 found by mammographic screening.

22 Survival rates and disease free survival,

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1 in particular, drops to 60 to 70 percent when lymph
2 nodes are involved by the tumor. That number further
3 drops to approximately 40 percent when the lymph nodes
4 are involved and the primary tumor is palpable at
5 presentation.

6 Next slide, please.

7 There have been several studies looking at
8 the risk of breast cancer in women with implants, and
9 they have rather conclusively demonstrated to date
10 that there is no increased risk of breast cancer as a
11 result of the presence of the implant, and in fact, in
12 several smaller studies there has been actually a
13 slightly decreased rate of breast cancer compared to
14 that expected.

15 May I have the next slide, please?

16 Some general considerations first, and
17 then I'll get into specific data that is available.

18 The American College of Radiology
19 Standards require the performance of routine views, as
20 well as implant displaced views in order to adequately
21 evaluate the breast tissue in patients with implants.
22 As a result, we can expect at least double the

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1 radiation dose to the breast tissue per mammogram
2 obtained in such patients.

3 Further, the presence of implants in and
4 of themselves is an indication for diagnostic
5 mammography, which would allow the mammograms to be
6 reviewed by the radiologist when the patient is there
7 in the suite. The reason for this is that many times
8 the technologist is unable to obtain an optimal
9 mammogram at the first pass, and additional views
10 would be needed to adequately compress or evaluate the
11 breast tissue.

12 As a result, we again anticipate at least
13 more than double the cost of annual surveillance
14 mammography.

15 Next slide, please.

16 These are rather difficult to project, but
17 just to illustrate, this is a mammography with routine
18 views first in a patient with silicone implants, and
19 the next slide, please. The corresponding images are
20 obtained when the implant is pushed back out of the
21 field of view, allowing better compression of the
22 implant -- of the parenchyma itself.

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1 Next slide, please.

2 Even with such techniques, there is a
3 reduction in the visualized breast tissue in patients
4 who have breast implants. It's difficult to answer
5 absolutely how much that reduction would be in any
6 given patient. There is some data from a series where
7 patients' mammograms were measured both prior to and
8 after implantation, and overall it was found that 30
9 percent reduction in the visualized breast parenchyma
10 in the absence of any contracture.

11 If contracture is present, it's more
12 difficult to compress the breast. As a result,
13 greater reduction, on the order of 50 percent, was
14 observed in the amount of visualized parenchyma. Even
15 with implant displacement techniques, the amount of
16 breast tissue that we see is still decreased compared
17 to a patient without implants, and in fact, on average
18 that was 25 percent still obscured with implant
19 displacement; greater, on the order of 35 percent, if
20 the implants are subglandular compare to subpectoral
21 locations.

22 Next slide, please.

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1 To illustrate, this is a woman who had
2 silicone implant placed behind the muscle and there's
3 very little breast tissue visible on the routine
4 views.

5 Next slide please.

6 And this is difficult to project, but on
7 the implant displaced views, a subtle cluster of
8 calcifications was noted, and it's actually right here
9 in the middle of a spot magnification view. This
10 patient had a very small focus of ductile carcinoma in
11 situ that was detected despite the presence of the
12 implants.

13 Next slide, please.

14 However, it's not always so easy to
15 displace the implant. This woman has a saline
16 implant, and you can see that it's still quite dense,
17 although you can see a little bit of the internal
18 structure and the folds of the edge of the implant.

19 And despite every attempt at implant
20 displacement, this is the best mammogram that could be
21 obtained. She had very little breast tissue.

22 Next slide, please.

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1 She underwent an ultrasound. I don't know
2 if we can have the lights down any further --
3 underwent an ultrasound that showed the implant
4 itself, and there was a very subtle mass anterior to
5 the implant that was an early infiltrating ductile
6 carcinoma, completely invisible on mammography as a
7 result of the implant.

8 Next slide, please.

9 In general, as I've mentioned, the implant
10 can hide the breast tissue directly and, as a result,
11 can hide lesions as well in the breast tissue.
12 Adequate compression is sometimes difficult to achieve
13 due to contracture, pain, and the mass effect of the
14 implant itself. It can displace the tissue and cause
15 overlap in the normal parenchyma.

16 It can be difficult to visualize lesions
17 in both projections. You might see that lesion
18 inferiorally in the breast, and yet it's hidden by the
19 implant in the craniocaudal projection, despite
20 implant displacement techniques, and this can confound
21 interpretation as well as limit the biopsy options and
22 make it more difficult to biopsy any lesions that are

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1 seen.

2 And finally, in the woman who had
3 undergone removal of an implant, there can be
4 extensive scarring, not always, but there can be.
5 That can confound interpretation. There can be
6 residual calcifications, particularly if the capsule
7 is left behind after removal of the implant, and both
8 of these can mimic cancer.

9 Next slide, please.

10 To illustrate, again, this is a patient
11 who has a silicone implant behind the breast tissue,
12 and this was the best mammogram that could be
13 obtained. Very poor compression was achieved in the
14 tissue itself, and you can see there's a rather large
15 density. This is approximately four centimeter
16 invasive ductile carcinoma was visible, but if there
17 were any other lesions in this breast, it would be
18 very difficult to assess that.

19 Next slide, please.

20 And, again, this doesn't project well in
21 this lighting, but this was a patient who was found to
22 have a subtle cluster of calcifications in the

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1 inferior breast.

2 Next slide, please.

3 But she had ruptured saline implants
4 bilaterally, and we were unable to localize the
5 calcifications in the other plane because they really
6 proved to be on the inferior breast directly
7 underneath the implant. We were able to biopsy these
8 with stereotactic technique and found fibrocystic
9 change in this case.

10 Next slide, please.

11 After implant removal we can see a variety
12 of changes that are very suspicious. This particular
13 patient had explantation of an intact saline implant,
14 but remained with a spiculated density at the chest
15 wall which, if you didn't know the history, would be
16 considered highly suspicious.

17 She then underwent ultrasound -- next
18 slide, please -- and was found to have a seroma.

19 Next slide, please.

20 Another patient who had undergone
21 explantation, again, had a spiculated density of the
22 chest wall, and there were actually calcifications

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1 evident within this, a lot of deformity in the breast
2 tissue, difficult to get an adequate mammogram,
3 especially in the inferior breast.

4 This proved to be an infective collection.
5 We're having fund. I think you need a few more
6 microphones.

7 Next slide, please.

8 I mentioned that the capsule itself can
9 cause some problems with interpretation, and the main
10 reason for that is the presence of calcifications in
11 the capsule itself, a rather common finding. Judy
12 Distouet and colleagues found about a quarter of the
13 patients have some degree of calcification in the
14 capsule. Usually it's relatively easy to identify
15 because it's relatively coarse and typically benign,
16 but when it's first starting it can, again, mimic
17 early cancer.

18 Next slide, please.

19 Just an illustration of these calcified
20 capsules. You can see it really can get quite
21 extensive. This patient had severe contracture, as
22 well.

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1 Next slide, please.

2 And the calcification in that capsule can
3 be visible, easily distinguished from ligament
4 calcification or not. If it's left behind, this
5 capsule itself can form the pocket for collecting
6 fluid, and as I mentioned that one case, infection.

7 Next slide, please.

8 I think the overwhelming question which I
9 was asked to address is really will the diagnosis of
10 breast cancer be delayed in women with implants as a
11 result of suboptimal mammography. Unfortunately I'm
12 not sure I can answer this question. There are only
13 several small, retrospective studies that have been
14 performed which are really inadequate to answer this
15 question at this time.

16 Next slide, please.

17 I'm going to present a literature review,
18 but there is, again, minimal data and keep in mind
19 most serious report results from silicone implants,
20 not saline.

21 Next slide.

22 I think there is some evidence to suggest,

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1 however, that the results may be generalizable between
2 silicone and saline implants. A study again from
3 Washington University in 1989, using the American
4 College of Radiology and Mammography Phantom, which
5 includes a variety of artifacts, including dense
6 specks, which mimic calcifications, and densities
7 which mimic early cancerous manifests as masses, was
8 used with a variety of types of implants positioned on
9 top of the Phantom and a normal mammography exposure
10 performed.

11 In their study, they found the shell alone
12 minimally altered the ability to detect the various
13 artifacts, but the shell filled with either silicone
14 or saline completely obscured all artifacts.

15 Next slide, please.

16 What kind of performance are we expecting
17 from mammography? Well, this is a good question. I'm
18 not sure we have the absolute answer, but in the
19 American Health Care Policy Research Manual from 1994,
20 we do have benchmarks that were established by a
21 variety of experts in the field suggesting that with
22 routine screening, we should be able to achieve

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1 detecting of the majority of cancers at Stage 0 or
2 Stage 1, over 50 percent, and that node positivity
3 should be under 25 percent of the patients diagnosed,
4 and overall sensitivity of mammography on the order of
5 85 percent should be achievable.

6 I think that last number may be a little
7 optimistic. There have been multiple studies showing
8 performance. In practice it's closer to 78 to 80
9 percent detection of breast cancer, allowing for a
10 variety of factors, including errors in
11 interpretation.

12 Next slide, please.

13 These are the references on which I have
14 drawn, the literature that does exist on implants and
15 breast cancer detection.

16 Next slide, please.

17 There's a lot of information here, but
18 just to summarize, you can see across these studies
19 very small numbers of patients, and I think these are
20 patients who had augmented breasts with usually
21 silicone implants and were not undergoing annual
22 mammographic screening. So this is simply at the time

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1 of detection looking at results.

2 They had ten patients, six patients, seven
3 who had implant displacement views, as well as routine
4 views, a total of 41 patients in the study of
5 Silverstein, but all small numbers of patients in
6 these studies.

7 Overall, the degree to which cancers were
8 visible mammographically ranged from 55 percent up to
9 a high of 86 percent. Overall palpability of the
10 lesions detected was quite high across all these
11 series. The lowest was the first study here with
12 Leibman and Kruse, where six out of ten cancers were
13 palpable at presentation, but the vast majority of the
14 cancers in these studies were palpable, and again,
15 this may reflect the lack of routine screening in
16 these patients.

17 Nodal positivity was also higher than that
18 benchmark of 25 percent across most of these series.
19 One study in particular I want to call your attention
20 to was that of Laurie Fajardo and colleagues done at
21 Arizona. At the time 18 patients all had implant
22 displaced mammography views, as well as routine views,

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1 and in that series the sensitivity was only 67
2 percent, and in fact, 39 percent had positive lymph
3 nodes at presentation.

4 Next slide, please.

5 So to summarize, the majority of patients
6 in these studies that have been done to date had only
7 routine mammographic views without implant
8 displacement, and we've already shown, I think, that
9 it's mandatory that the implant displacement views be
10 obtained in order to adequately evaluate the
11 parenchyma.

12 More cancers were palpable at diagnosis
13 than in general. We expect that number to be about 40
14 percent palpable at presentation. In these series it
15 was from 80 to 90 percent in the majority of the
16 studies.

17 The stage distribution of cancers,
18 however, in the papers that had control groups was not
19 found to be significantly different in women with
20 implants, nor was the survival found to be different.

21 Okay. Next slide, please.

22 Overall, where it could be assessed, 66

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